Lum Buchanan
S.W.D.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

L. P. Voigt
Secretary

BOX 450
MADISON, WISCONSIN 53701

April 6, 1971

RECEIVED DNR
APR 7 1971
Lake Mich. Dist.

Mr. F. B. Loppnow, Manager
Kimberly Mill
Kimberly-Clark Corporation
Neenah, Wisconsin 54956

Dear Mr. Loppnow:

I am writing you in response to your letter of March 19, 1971, regarding the Kimberly Mill sludge disposal site.

It is our understanding that your company wishes to receive a license for the site at this time although it will not be used immediately for sludge disposal. This license would then be conditional upon the preparation of the site in accordance with the stipulations outlined in the approval report.

It is our policy regarding new sites that a license not be granted until all aspects of site development have been accomplished in conformance with the site approval report.

We realize that this site is to be used as a back-up to your primary sludge disposal operation which will be by private operator. Further, it is understood that the amount of work necessary to prepare this site for operation is not great. Therefore, should your company decide to switch its sludge disposal operation to this property in the future, preparation and the subsequent issuance of the site license could be accomplished in a matter of days. For these reasons, we will not issue the license for the site at this time.

At such time in the future that your company wishes to prepare the site for use and begin operations, we will again review the site and, if preparation is adequate, issue the license.

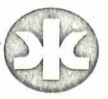
Should you have any further questions or comments regarding this matter please feel free to contact me at any time.

Very truly yours,
Bureau of Air Pollution Control
and Solid Waste Disposal

S. C. Lagow, Chief
Solid Waste Disposal Section

00569

GCB:jac
cc: Lake Michigan District - Green Bay

Kimberly·Clark  Corporation

NEENAH, WISCONSIN 54956 • TELEPHONE AREA CODE 414 722-3311

KIMBERLY MILL
KIMBERLY, WISCONSIN 54136
AREA CODE 414 788-3511

March 19, 1971

Mr. Glen C. Bishop, Engineer
Solid Waste Disposal Section
Department of Natural Resources
State of Wisconsin
P. O. Box 450
Madison, Wisconsin 53701

MAR 22 1971

Dear Mr. Bishop:

Subject: Kimberly Mill Sludge Disposal Site

This will confirm the phone conversation of March 17, 1971 pertaining to our request for direction in the pursuit of a license to operate a sludge disposal site.

Your report dated February 15, 1971 recommended approval upon incorporation of the following conditions:

1. Provide a tree screen along the North and East boundaries of the site.
2. Enclose the site with a fence.
3. Construct berms to contain the active dumping area.

As stated previously, it is our intent to have the sludge from our Waste-Water Treatment Plant hauled by a contractor, and disposed of on a site owned by the contractor. We propose to maintain the described site as a contingency. The area is presently being rented for agricultural purposes, and we propose to continue this use. As soon as weather permits, we shall initiate the planting of a tree screen along the south side of Country Highway Z and along Haas Road on the east side of the site.

We propose that the fencing and the construction of a berm is something that could be done just prior to the use of the area for solids disposal. This would permit continuation of the site for agricultural use until that time.

We are prepared to submit the license fee and the surety bond. We request that a license be granted with the stipulation that usage of the land for solids disposal be dependent upon the completion of the fencing, berm construction and inspection by your office.

Yours truly,
KIMBERLY-CLARK CORPORATION

F. B. Loppnow

F. B. Loppnow
Kimberly Mill Manager

/ck

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TN Buchanan (Lake Michigan District)

RECEIVED DNR
FEB 20 1971
Lake Mich. Dist.

February 12, 1971

Mr. Frank B. Loppnow, Manager
Kimberly Mill
Kimberly, Wisconsin 54136

Dear Mr. Loppnow:

The plans and specifications relating to the proposed Kimberly-Clark Corporation sludge disposal site located on approximately 88 acres of property in the SE¼ of the SW¼ of Section 19, and the E½ of the NW¼ of Section 30, T21N, R19E, Town of Buchanan, Outagamie County, Wisconsin, has been reviewed by the Division of Environmental Protection.

Based on the investigation and review of the submitted details, the staff's opinion is that your proposal should provide for a satisfactory solid waste disposal operation provided the recommendations in the attached Division report are followed. The site and operating plan are, therefore, tentatively approved subject to compliance with Chapter RD 51, Wisconsin Administrative Code, and to fulfillment of the recommendations listed in the attached Division report.

The Division of Environmental Protection reserves the right to require changes to the proposal should conditions arise making such necessary prior to the issuance of the license. If the proposed work is not commenced within two years from this date, a new application will have to be submitted prior to any site development.

Please review the enclosed Report on Examination of Plans and Specifications to determine if the Report accurately sets forth the details and plans of your proposal. Particular attention should be given to the conclusions and recommendations submitted by our staff.

You will be given ten days following the receipt of this letter in which to respond to any portion of this report that is in error or with which you do not agree. If no response is received within ten days, your license, when issued, will be subject to compliance with the plan, conditions and recommendations as set forth in the Report on Examination of Plans and Specifications dated February 12, 1971.

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The license will be issued following receipt of the $50 license fee, the $1,000 surety bond, and upon completion of a field inspection to determine acceptability of site preparation.

Very truly yours,
Bureau of Air Pollution Control
and Solid Waste Disposal

S. C. Lagow, Chief
Solid Waste Disposal Section

Enc. Division report

cc: Lake Michigan District

February 15, 1971

REPORT ON EXAMINATION OF PLANS AND SPECIFICATIONS
PAPER MILL SLUDGE DISPOSAL SITE
KIMBERLY-CLARK CORPORATION
NEENAH, WISCONSIN

There is submitted herewith a report on the examination of plans and specifications covering the proposed installation of a paper mill sludge disposal site for the Kimberly-Clark Corporation of Neenah, Wisconsin. The plans were prepared and submitted by the Engineering Department of the Kimberly-Clark Corporation.

GENERAL INFORMATION

OWNER:

Kimberly-Clark Corporation.

RESPONSIBLE PERSONS TO CONTACT:

Mr. Frank B. Loppnow - Mill Manager
Mr. David Baer - Representative

LOCATION:

The proposed site is located in part of the SE¼ of the SW¼ of Section 19, and the E½ of the NW¼ of Section 30, T21N, R19E, Town of Buchanan, Outagamie County, Wisconsin. County Highway Z runs east-west through the northern part of the site and a town road makes up the entire eastern boundary of the property.

SITE INVESTIGATION:

The site was inspected on August 21, 1970 by Dennis C. Weisensel, Environmental Technician, from the Green Bay District Office. He was accompanied by Mr. David Baer, a representative of the Kimberly-Clark Corporation. It was Mr. Weisensel's opinion that, with proper preparation and operation, the site would be acceptable for solid waste disposal.

SITE CHARACTERISTICS:

The proposed site lies in an open field of relatively flat topography, descending gently to the northeast. An intermittent drainage course exists in the northeast portion of the parcel, which drains to the Fox River, roughly one-half mile to the north.

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Three soil borings were taken on the site. Soil conditions were quite uniform. Generally the borings showed 4 to 18 inches of dark brown silty topsoil, underlain by a reddish-brown silty clay with a trace of sand and sand gravel. This extended down to approximately the 13 foot depth where the clay changed to a greyish-brown color. This clay ran down to the bottom of all borings at a depth around 20 feet.

No groundwater was encountered in any of the borings, although in such highly impervious soils it is difficult to determine the hydrostatic groundwater table. An excavation or boring into this clay would not show the groundwater level as the rate of transmissibility is so low. Some indication of groundwater level can be derived from the soil color and penetrometer values. From this information it would appear that the hydrostatic groundwater level would be around the 13 foot depth. Thus, with respect to soil considerations, the site appears to be well suited for disposal of the type of wastes indicated.

There are three wells located within ½ mile of the site. However, due to local topography, depth to water-bearing strata, and the very low permeability of the soil, it is very unlikely that the disposal site will have any affect whatsoever on the wells in this area.

The site is visible from the north and east from the county and town roads respectively. Some screening is available on the eastern boundary but more will have to be provided along with adequate screening along County Highway Z.

MATERIALS TO BE DISPOSED:

Quantity and type of waste expected at this site have been determined from a pilot plant operation. It is expected that approximately 150 cubic yards of sludge per day will be deposited. This will have an expected consistency of 15-20% bone dry.

Following is a list of materials used in the paper-making process, some of which is retained in the finished product, some discharged with waste water treatment plant effluent, and some of which is discarded in the sludge:

Busan slimicides
Alum, caustic and ammonia
Chemical and mechanical wood fires
Clay, calcium carbonate
Alumina, titanium dioxide
Sulfuric acid
Sodium hydrosulfite
Sulfur dioxide
Dyes, Starches
Polyvinyl alcohol
Latex, Enzyme

Parex resin
Carbowax
Hydroxethyl cellulose
Soap
Dow ECR 34
Glyoxal
Nalco 71-D defoamer
Stearate
Tamol 850
Calgon

DEVELOPMENT AND OPERATION:

Prior to depositing any solid waste at this site several things will have to be done. First, the entire site will have to be fenced with at least a three strand barbed wire fence provided with a lockable gate at the entrance to control dumping at the site. The gate will be kept locked during non-working hours. Screening along County Highway Z near the northern end of the property, and along the town road which makes up the eastern boundary of the site will be provided by means of fast-growing trees.

It is planned that the operation will begin near the southern boundary of the property. Small berms ranging from 6 to 12 feet in height, or possibly higher, will be constructed to contain the active dumping area. These berms are provided to prevent chemical materials contained in the sludge from being carried into surface waters. As it is desired to have the sludge materials air dry, it is planned to spread the waste into thin layers approximately 10 to 12 inches thick. As the sludge drys it may be pushed into thicker layers by means of a crawler-type tractor, or subsequent layers may be spread over the top of earlier deposits.

As an active fill area, which may measure several hundred feet on a side depending on topography, is brought up to grade and nears the top of its berm, the berm for the next active fill area will be prepared. The surface of a completed fill area will be adequately sloped to allow surface water runoff while maintaining the general southto north drainage system. After sufficient time has elapsed for drying, covering of the area with two feet of compacted earth material and seeding with native grasses will be accomplished in accordance with the Solid Waste Standards.

SUPERVISION:

All operations at this site will be carried out under the supervision of Mr. Frank Loppnow, Mill Manager, Kimberly Mill, Kimberly, Wisconsin.

CONCLUSIONS AND RECOMMENDATIONS

Based upon an examination of the maps and plans relating to the proposed site and conversation with Mr. David Baer, representative of the Kimberly Mill, it is believed that subject to the incorporation of the conditions noted in the body of this report, the program proposed by these details should provide for the satisfactory operation of a sludge disposal site for the Kimberly-Clark Corporation. It is therefore recommended that the details be approved upon incorporation of the following conditions:

1. Screening by means of rapidly growing trees be accomplished along County Highway Z and the town roads to the east of the property.

2. The site be provided with at least a three strand barbed wire fence equipped with a lockable gate at the site entrance.

3. The Department shall be notified when site preparation is complete so that an inspection may be made prior to the start of disposal operations at the site.

4. When any active fill area is completed, the Department will be notified so that a site inspection can be made prior to the start of operation in the next fill area. This inspection will check surface grades on the completed area and also the adequacy of preparation for the next fill area to be used.

5. The disposal operation be operated in accordance with this report, the engineers' plans, and the above listed conditions, or subsequent essential and approved modifications.

Respectfully Submitted,

Glen C. Bishop

Glen C. Bishop, Engineer
Solid Waste Disposal Section

S. C. Lagow

S. C. Lagow, Chief
Solid Waste Disposal Section

GCB:nyo

cc: Lake Michigan District

TN Buchanan
S.W.D.

Green Bay

December 1, 1970

Division of Environmental Protection

TO: Thomas G. Frangos, Administrator

ATTN: Solid Waste Disposal Section

FROM: James L. Lissack, Lake Michigan District Director

SUBJECT: Kimberly-Clark Corporation - Proposed Solid Waste Disposal Site

This is a report concerning a proposed solid waste disposal site to be operated by the Kimberly-Clark Corporation. The site is located in Sections 19 and 30, Town of Buchanan, T21N, R19E, Outagamie County. The site will utilize a 70-acre plot south of County Trunk Highway "Z" and an adjoining 20-acre plot north of County Trunk Highway "Z".

The solid waste to be disposed at the proposed site will bepaper sludge. This paper sludge will consist of 50 percent clay with the remaining 50 percent being of starch and wood fiber. This sludge will have a 15 to 20 percent dry weight constituancy. This material is to be broadcasted over a large area so that drying will occur.

On August 21, 1970, Mr. David Boer, a representative from the Kimberly-Clark Corporation, and this writer conducted a field investigation of the proposed solid waste disposal site. The contours of the site are moderately flat with a slight dry water run through the center running in a northerly direction. It is believed that this dry water run would not affect the operation. It was noted that screening will be necessary on at least the north and east sides of the 70-acre plot. The east side is partially screened by deciduous shrubbery, however, additional screening will be necessary.

Please find attached additional information required by NR 51.10, Sanitary Landfill.

I am recommending that this site be approved for the disposal of industrial wastes as indicated. This recommendation is given with the following conditions:

1) Additional screening be provided.

2) Compacting and covering is to be done if found necessary.

By ____________________
Dennis C. Weisensel
Environmental Technician

DCW:vb
Enclosure

00561

NOTED

Division of Environmental Protection, 1768 Main St., Green Bay, Wis. 54302

September 25, 1970

Mr. Dan Baer
Kimberly-Clark Corporation
Kimberly, Wisconsin 54136

C O P Y

Dear Mr. Baer:

This is a report concerning a proposed solid waste disposal site to be operated by the Kimberly-Clark Corporation. The site is located in Sections 19 and 30, Town of Buchanan, T21N, R19E, Outagamie County, and was investigated on August 21, 1970. The site will utilize a 70-acre plot south of County Trunk Highway "Z" and an adjoining 20-acre plot north of County Trunk Highway "Z". The contours of the proposed site are moderately flat with a slight dry water run through the center ofthe proposed site running from south to north. It is believed that this dry water run would not affect the operation.

The solid waste to be disposed at the proposed site will be paper sludge. This paper sludge will consist of 50 percent clay with the remainder 50 percent being starch and wood fiber. This sludge will have a 15 to 20 percent dry weight constituancy.

The proposed method of disposal operation will be to broadcast this waste so that it will dry through evaporation. The material then will be bulldozed into a trench, compacted and covered.

Screening from view will be necessary on at least thenorth and east side of the 70-acre plot. The east side is partially screened by deciduous shrubbery, however, additional screening will be necessary.

Tentative approval of this proposed site is given at this time. Formal approval will be based on additional information submitted to this department as required by NR 51.10, Sanitary Landfill, State of Wisconsin Solid Waste Disposal Standards.

If I can be of any further assistance, feel free to contact this office.

Very truly yours,

DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Protection

Dennis C. Weisensel
Environmental Technician

DCW:vb
cc: Solid Waste Disposal Section

00560

9.21.70

Proposed site

DEPARTMENT OF NATURAL RESOURCES
Solid Waste Disposal - Site Evaluation

Licensee Kimberly Clark Corp. License No. ____

Officials: (Mayor, Chairman, Pres.) Dan Baer

(Clerk) ____

Responsible Person ____ Phone ____

Location Outagamie (county) Buchanan (township) T21N R19E Sec's 19+30 (¼sec., town, range)

Type of Operation Broad Cast of Paper Sludge Population served ____

Distances to: surface water none nearest dwelling 500'

groundwater — bedrock Clay S.T.H. — Cnt "Z"

OPERATION CHECK LIST	YES	NO
Screened from view	( )	(✓)
Lockable gate at entrance	( )	( )
Regulatory signs posted	( )	( )
All-weather approach road	( )	( )
Nuisance free (odors, loose paper, etc.)	( )	( )
Site fenced	( )	( )
Operator on duty	( )	( )
Compaction and covering	( )	( )
Equipment available	( )	( )
Putrescible material covered	( )	( )
Rodent and insect control	( )	( )
Burning practiced	( )	( )
Fire hazard in area	( )	( )
Hazardous material at site	( )	( )
Site subject to flooding	( )	( )
Local official contacted	( )	( )
Permit required (60.72 Stats.)	( )	( )

REMARKS

Volume est. at 20 Tons/day

Site is flat land - Proposed operation is to Broad cast Paper sludge consisting of 15-20% dry weight and Components of 50% Clay and remainder starch + wood fibor - It will be broad cast to provide evaporation. a sample was examined and found to be quite oderless.

The site is 70 acres south of Countrunk "Z" and 20 adjoining acres north of Co T "Z" It is nearly flat with a slight dry water run

Comments ____

Date visited ____ Evaluation by ____

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thru the center – It is believed that this water run would not effect the operation –

Screening would be needed on at least the North and East side of the 70 acre parcel – The East side is partially screened by deciduous shrubbery – It seems like the site would be agreeable for this type of operation –

Check page 6 Town of Buchanan, Ontg. Co for location –

[signature]

8.21.70